

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A pavement repair system comprising:

a vehicle;

a hopper disposed on the vehicle;

at least one flameless heating element disposed proximate the hopper, the flameless heating element operable to maintain aggregate materials in the hopper within a selected temperature range; and

a hydraulically driven on-board generator disposed on the vehicle, powered by the vehicle and operable to provide power to the at least one flameless electric heating element during vehicle operation.
2. (Original) The pavement repair system of Claim 1 wherein the at least one flameless heating element further comprises an electric heating element.
3. (Original) The pavement repair system of Claim 2 wherein the flameless heating element further comprises an electric immersion heater.
4. (Original) The pavement repair system of Claim 1 further comprising two cylindrical, electric heating elements disposed within an air jacket proximate the hopper.
5. (Original) The pavement repair system of Claim 4 wherein the electric heating element further having a combined capacity of at least seven kilowatts.

6. (Currently Amended) The pavement repair system of Claim 1 further comprising the at least one flameless heating element operable to maintain the aggregate ~~hot mix asphalt~~ materials within the hopper ~~with~~ between 250°F and 350°F.

7. (Currently Amended) The pavement repair system of Claim 1 further comprising:

a first flameless heating element disposed within an air jacket adjacent to a first side of the hopper;

a second heating element disposed within the air jacket adjacent to a second side of the hopper; and

the first flameless heating element and the second flameless heating element operable to maintain the aggregate materials in the hopper between 275°F and 300°F.

8. (Original) The pavement repair system of Claim 1 further comprising a thermostatic controller associated with the at least one flameless heating element.

9. (Original) The pavement repair system of Claim 1 further comprising the hopper having an air jacket.

10. (Original) The pavement repair system of Claim 1 further comprising the at least one flameless heating element operable to be alternately powered by an external power source.

11. (Original) The pavement repair system of Claim 10 wherein the external power source comprises a power cord operable to connect with an electrical power outlet.

12. (Canceled).

13. (Original) A hopper assembly for providing hot-mix asphalt for a pavement repair vehicle comprising:

a hopper body;

at least one flameless heating element disposed adjacent the hopper body operable to heat ~~aggregate~~hot-mix-asphalt materials within a selected temperature range;

the at least one flameless heating element operable to be powered a hydraulically driven on-board generator powered by a pavement repair vehicle ~~on-board generator~~; and

the at least one flameless heating element operable to be powered by an external power source.

14. (Original) The hopper assembly of Claim 13 further comprising two cylindrical, electrical heating elements disposed within the air jacket.

15. (Original) The hopper assembly of Claim 13 wherein the at least one flameless heating element comprises at least one electric immersion heater.

16. (Currently Amended) The hopper assembly of Claims 13 further comprising the at least one flameless heating element operable to maintain the ~~aggregate~~hot-mix materials between 250° F and 350° F.

17 (Currently Amended) The hopper assembly of Claims 13 further comprising the at least one flameless heating element operable to maintain the ~~aggregate~~hot-mix materials between 275° F and 300° F.

18. (Currently Amended) A method for heating a hopper in a pavement repair vehicle comprising:

providing at least one flameless heating element in an air jacket adjacent to the hopper; and

providing power to the flameless heating element using hydraulically driven ~~an on-~~board generator powered by a vehicle operable to heat aggregate ~~hot mix asphalt~~ materials within the hopper to a selected temperature range.

19. (Canceled).

20. (Currently Amended) The method of Claim 18 further comprising providing two cylindrical electric heating elements operable to maintain the aggregate materials ~~hot mix asphalt~~ between 275° F and 300° F.